# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FY51421JPWO1	FOR FURTHER ACTION	See item 4 below				
	International filing date (day/month/year) 28 June 2005 (28.06.2005)	Priority date (day/month/year) 01 July 2004 (01.07.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant YAMAHA HATSUDOKI KABUSHIKI KAISHA						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis.</i> 1(a).						
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.						
3.	This report contains indications relating to the following items:						
<i>J.</i>	This report contains indications relating to the following items:  Box No. I  Basis of the report						
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention					
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or indus applicability; citations and explanations supporting such statement						
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
		Date of issuance of this report 16 January 2007 (16.01.2007)					

Authorized officer

e-mail: pt07@wipo.int

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FY51421JPW01 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/011804 28.06.2005 01.07.2004 International Patent Classification (IPC) or both national classification and IPC Applicant YAMAHA HATSUDOKI KABUSHIKI KAISHA This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/011804

Box	No. I	Basis of this opinion
1.		gard to the language, this opinion has been established on the basis of the international application in the language in which it was aless otherwise indicated under this item.
		nis opinion has been established on the basis of a translation from the original language into the following language
		, which is the language of a translation furnished for the purposes of international search (under
	R	ule 12.3 and 23.1(b)).
2.		gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed in, this opinion has been established on the basis of:
	a. ty	pe of material
		a sequence listing
		table(s) related to the sequence listing
	b. fo	rmat of material
		in written format
		in computer readable form
	c. ti	ne of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	fu	addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or rnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as ed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additio	nal comments:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/011804

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	1-13	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-13	NO
	Industrial applicability (IA)	Claims	1-13	YES
		Claims		NO

#### 2. Citations and explanations:

Document 1: JP, 2-118269, A (Yamaha Motor Co., Ltd.), 2 May, 1990 (02.05.90), page 4, upper left column, lines 4-11; page 4, upper right column, lines 10-18, Fig. 2

Document 2: JP, 5-39865, A (Honda Motor Co., Ltd.), 19 February, 1993 (19.02.93), paragraph [0017], Fig. 5

Document 3: JP, 3-172675, A (Iseki & Co., Ltd., Kobe Steel, Ltd.), 26 July, 1991 (26.07.91), page 4, lower left column, line 3 to lower right column, line 9, Figs. 1, 6 and 7, & US, 5086896, A, & EP, 429801, A2, & KR, 9311564, B

Document 4: JP, 2002-243034, A (Isuzu Motors Ltd.), 28 August, 2002 (28.08.02), paragraph [0013], Fig. 1, & US, 2002/96009, A1, & US, 2003/230158, A1, & EP, 1225374, A2 Document 5: JP, 62-110532, A (Fuji Tekkosho Kabushiki Kaisha, Nissan Motor Co., Ltd.), 21 May, 1987 (21.05.87), page 4, upper left, lines 8-13; Fig. 1

## Claims 1 and 13

Document 1 describes a shift operating apparatus of a saddle type vehicle operating a change pedal to rotate a shift drum via a coupling rod to perform a shift operation. Document 2 describes a shift controlling apparatus of a saddle type vehicle stroking an electrically-driven motor by a predetermined amount to rotate a shift drum shaft to perform shift control. Document 3 describes an actuating force transmitting mechanism comprising an urging means for urging first and second coupling sections to a neutral position, and a stopper mechanism stopping a relative movement when the first or second coupling section relatively moves from the neutral position against an urging force of the urging means. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.

## Claim 2

Document 2 describes that when a reactive force is exerted on the movement of an actuating force transmitting mechanism, the actuation force transmitting mechanism relatively moves against an urging force of an urging means until a first or second coupling section is stopped by a stopper mechanism, and thereafter the first and second coupling sections move together. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.

## Claim 3

Document 3 describes an actuating force transmitting mechanism, wherein first and second coupling sections are formed of cylindrical members that contain a rod and a part of the rod. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/011804

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### Claims 4-9

Document 4 describes a structure in which a coil spring is placed between a rod and a cylindrical member, the rod has sites having different diameters, the site having a larger diameter is a portion of contact with a spring, the cylindrical member has a step formed on the inner surface, the step is a part of a stopper mechanism, the cylindrical member includes a plurality of cylindrical members having inner and outer surfaces, and first and second coupling sections are placed such that their front ends overlap each other. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-4.

#### Claim 10

A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3. At this time, a person skilled in the art could have placed as required the actuating force transmitting mechanism at some midpoint on the coupling rod.

#### Claim 11

Document 5 describes that an actuating force transmitting mechanism is provided in a case held by a coupling rod. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3 and 5.

### Claim 12

Document 3 describes that an actuating force transmitting mechanism is placed outside an engine case. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.